

Sheet 1 of 1 ATTORNEY DOCKET NO. **FORM PTO-1449** U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 09/927,500 1293.1059CIP2D FIRST NAMED INVENTOR LIST OF REFERENCES CITED BY APPLICANT Jung-wan KO et al. FILING DATE **GROUP ART UNIT** (Use several sheets if necessary) August 13, 2001 2616 **U.S. PATENT DOCUMENTS** \*EXAMINER DOCUMENT SUB-FILING INITIAL NO. DATE NAME **CLASS** CLASS DATE AA AB AC FOREIGN PATENT DOCUMENTS DOCUMENT NO. **ABSTRACT** DATE COUNTRY **TRANSLATION** YES AG ΑH TRANSLATION OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) YEŞ NO Japanese Office Action from Japanese Divisional Application No. 2002-Bu AM 199243 Japanese Office Action from Japanese Divisional Application No. 2002-AN 199244 **EXAMINER** DATE CONSIDERED \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 14.1



Sheet 1 of 1 ATTORNEY DOCKET NO. FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 09/927,500 1293.1059CIP2D FIRST NAMED INVENTOR LIST OF REFERENCES CITED BY APPLICANT Jung-wan KO et al. FILING DATE **GROUP ART UNIT** (Use several sheets if necessary) August 13, 2001 2616 **U.S. PATENT DOCUMENTS** \*EXAMINER DOCUMENT SUB-**FILING** INITIAL NO. CLASS DATE DATE CLASS NAME ΑÀ 6,148,138 11/2000 Sawabe et al. AB 5.555.098 10/1996 Parulski AC 5,902,115 05/1999 Katayama AD AE AF FOREIGN PATENT DOCUMENTS DOCUMENT NO. **ABSTRACT** DATE COUNTRY **TRANSLATION** YES AG JP 06-20443 01/1994 Japan Х ΑH JP 08-339194 12/1996 Japan Х ΑI JP 09-252450 09/1997 Japan Χ AJ ΑK AL OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) TRANSLATION YES NO Office Action issued in Japanese Patent Divisional Application No. 2002-AM Χ 199241 on October 18, 2005. **EXAMINER** DATE CONSIDERED \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## EXPLANATIONS OF RELEVANCY OF REFERENCES

	ALIACHMENT 1(8)
ATTORNEY DOCKET NO.	APPLICATION NO.
1293.1059CIP2D	09/927,500
FIRST NAMED INVENTOR	
Jung-wan KO et al.	
FILING DATE	GROUP ART UNIT
August 13, 2001	2616

12/6/11/06

Reference AA (0,148,138) is substantially equivalent to Reference AI (JP 09-252450).

\*Reference AB (5,555,098) is substantially equivalent to Reference AG (JP 06-20443).

\*Reference AC (5,902,115) is substantially equivalent to Reference AH (JP 08-339194).

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the	АН	8-263969	10/1996	Japan				х
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a	AA	5,884,004	3/16/99	Sato et al				
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ldr	AG	08-272541	10/18/96	Japan		_	Abstract	
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#### LIST OF COPENDING APPLICATIONS

	ATTACHMENT 1(f)
ATTORNEY DOCKET NO.	APPLICATION NO.
1293.1059CIP2D	09/927,500
FIRST NAMED INVENTOR	
Jung-wan KO et al.	
FILING DATE	GROUP ART UNIT
August 13, 2001	2615

The following, prior-filed, copending U.S. patent application(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. Pursuant to 37 CFR 1.98(a)(2)(iii), a copy of the identified copending application(s) is provided.

It is requested that the Examiner acknowledge his consideration of application(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

**U.S. PATENT APPLICATION DOCUMENTS** 

*EXAMINER INITIAL		U.S. SERIAL NO.	FILING DATE	NAME	ASSIGNEE
ide	1	10/625,735	07/24/03	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

U.S. DEPARTMENT OF COMMERCE 1293.1059CIP2D 09/927,500

FIRST NAMED INVENTOR

Jung-wan KO et al.

FILING DATE GROUP ART UNIT

(Use several sheets if necessary)

August 13, 2001 2615

#### **U.S. PATENT DOCUMENTS**

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*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE		
the	AA	5,889,746	3/1999	Moriyama et al.		_			
Mu	AB	6,381,403	4/2002	Tanaka et al.					
M	AC	6,449,227	9/2002	Heo, Jung-Kwon					
Bu	AD	6,272,082	8/2001	Ishii et al.					
N	AE	6,219,488	4/2001	Mori et al.					
W	AF	5,131,311	7/1992	Murakami et al.					
W	AG	6,385,387	5/2002	Tanaka et al.					
W	АН	5,778,142	7/1998	Taira et al.					
121	Al	6,392,969	5/2002	Heo, Jung-Kwon					
12	AJ	6,208,802	3/2001	Mori et al.					
12	AK	5,963,704	10/1999	Mimura et al.					

#### **FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSL YES	ATION NO
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.

1293.1059CIP2D
FIRST NAMED INVENTOR

Sheet 2 of 2 APPLICATION NO. 09/927,500

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

Jung-wan KO et al.

GROUP ART UNIT

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**U.S. PATENT DOCUMENTS** 

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*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE		
M	ВА	5,654,516	8/1997	Tashiro et al.					
W	BB	6,125,232	9/2000	Taira et al.		-			
W	ВС	6,222,983	4/2001	Heo, Jung-Kwon					
W	BD	6,067,282	5/2000	Moriyama et al.					
M	BE	5,863,206	1/1999	Narusawa et al.					
m	BF	6,198,877	3/2001	Kawamura et al.					
11/	BG	5,703,308	12/1997	Tashiro et al.					
111	ВН	5,734,788	3/1998	Nonomura et al.					
W	ВІ	5,687,160	11/1997	Aotake et al.					
12/	BJ	6,289,166	09/2001	Uno et al.		_			
M	ВК	6,381,403	4/2002	Tanaka et al.					
m	BL	5,863,206	1/1999	Narusawa et al.					

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
D	AG	JP 8-339194	12/24/96	Japan			abstract only
W	AH	JP 8-227577	9/3/96	Japan			abstract only
N	Al	JP 4-67490	3/3/92	Japan	-		abstract only
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#### ATTACHMENT 1(F)

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## LIST OF COPENDING APPLICATIONS

٦	ATTORNEY DOCKET NO.	APPLICATION NO.
	1293.1059 CIP2D	09/927,500
Ì	FIRST NAMED INVENTOR	
1	Jung-wan KO et al.	<u> </u>
ı	FILING DATE	GROUP ART UNIT
	August 13, 2001	2615

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#### **U.S. PATENT APPLICATION DOCUMENTS**

APR 0 5 2002

	U.S. SERIAL NO.	FILING DATE	NAME	Technologysiente=2600
1	09/263,816	3/8/99	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
2	09/583,877	5/31/00	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
3	09/923,322	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
4	09/923,323	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
5	09/924,094	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
6	09/923,361	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
7	09/583,876	5/31/00	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
8	09/927,495	8/13/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
9	09/927,494	8/13/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
10	09/927,496	8/13/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
11	09/927,491	8/13/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
12	09/923,401	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
13	09/923,400	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
14	0/923,399	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
15	09/923,321	8/8/01	Jung-wan KO et al.	Samsung Electronics Co., Ltd.
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# EXPLANATIONS OF RELEVANCY OF REFERENCES

1	ATTACHMENT 1(e)
ATTORNEY DOCKET NO.	APPLICATION NO.
1293.1059CIP2D	09/927,500
FIRST NAMED INVENTOR	
Jung-wan KO et al.	
FILING DATE	GROUP ART UNIT
August 13, 2001	2616

6/11/06

U.S. Patent 5,555,098 corresponds to JP 6-20443.

W U.S. Patent 5,778,142 corresponds to JP 8-263969

WO 97/13366 and JP8-272541 are references in Office Action but were previously submitted.